

单元一

钢琴基础知识



微课

钢琴简介及正确演奏姿势

一、钢琴简介

钢琴是西洋古典音乐中的一种键盘乐器，有乐器之王的美称。钢琴由88个琴键（52个白键，36个黑键）和金属弦音板组成。

钢琴音域范围从A0（27.5Hz）至C8（4186Hz），几乎囊括了乐音体系中的全部乐音，是除了管风琴以外音域最广的乐器。钢琴普遍用于独奏、重奏、伴奏等演出，乐曲编配和排练十分方便。

演奏者通过按下键盘上的琴键，牵动钢琴里面包着绒毡的小木槌，继而敲击钢丝弦发出声音。钢琴需定时的护理，来保证它的音色不变。现代钢琴有两种外形：平面钢琴（三角钢琴）（见图1-1）和立式钢琴（见图1-2）。



图1-1 平面钢琴



图1-2 立式钢琴

二、钢琴弹奏的基本常识

1. 弹奏姿势

身体要对正键盘的中央，坐姿端正而不僵硬，上身略向前倾，但脊椎不可弯曲，背部和肩部要松而不垮。双手放在键盘上时要使肘部和前臂的高度与键盘一致，初学的孩子也可略高于键盘，以体会手臂重量的运用。坐的距离以上身略向前倾、双肩自然下垂、左右肘部自然放松地稍向身体外侧展开时，双手能舒适地放在键盘上为度；下身则注意大腿根到膝盖应略呈坡状倾斜，膝盖的位置在琴边下，膝弯处到脚后跟不小于一个直角，双脚略向前伸摆稳定。手型应放松而端正，手指自然弯曲，用指端肉垫部分触及琴键。五个手指的指端之间呈半圆形，掌关节自然拱起，好像松松地虚握了一个圆球，手腕大约与键盘平行，不要拱起塌陷。大指第一关节应略弯曲，不要全“躺”在琴键上，仅以指侧端触及琴键靠近边缘的位置，四指和小指要注意站正。弹奏姿势如图1-3所示。



图1-3 弹奏姿势

2. 弹奏手型

手指自然弯曲、同手掌一起构成一个半圆形，呈空握球状；掌骨关节(通常称第三关节)及所有手指关节都应凸起。应避免和纠正最易出现的手指第一关节和第三关节(指掌关节)塌陷呈凹状；手指应自然分开，原则上刚好一个手指对准一个琴键；整只手(从整个前臂到手)应以水平位置摆在琴键上、应使手指摆正，与琴键排列平行、大拇指应同样放在琴键上面；手指触键的基本位置应取在白键与黑键距离的约三分之一处。当触按黑键时，整只手应向黑键位置前挪，手指应弹奏在黑键前端位置。

正确的手型如图1-4所示。



图1-4 弹奏手型

要避免如图1-5所示常见的错误手型。



图1-5 错误手型

三、音阶与键盘



微课
音高与键盘

音级是指乐音在音列、音阶中的排序位置；音阶则是一组具有特定关系的乐音，在一个八度音程内，依照音高顺序排列起来的乐音列。由于这种乐音列中各乐音依次升高或降低，犹如用乐音构成的阶梯一般，故中文称之为音阶。

图1-6为钢琴键盘与谱表对照表。基本音级有字母名和唱名两种标记法。基本音级字母名为C、D、E、F、G、A、B，唱名为do、re、mi、fa、sol、la、si。

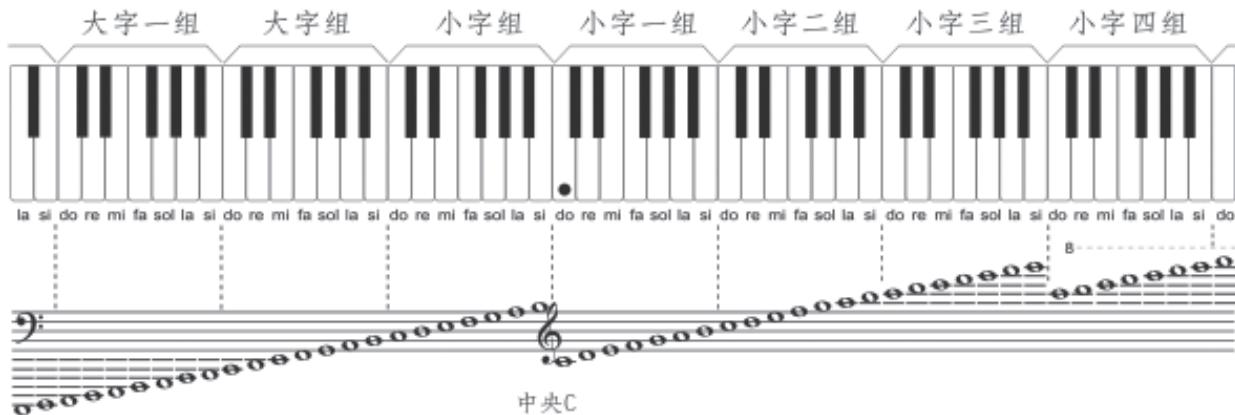


图1-6 钢琴键盘与音阶对照表



微课

基础乐理知识

四、基础乐理知识

1.五线谱

五线谱是由五条平行的“横线”和四条平行的“间”组成的，它们的顺序是由下往上数的。如图1-7所示。

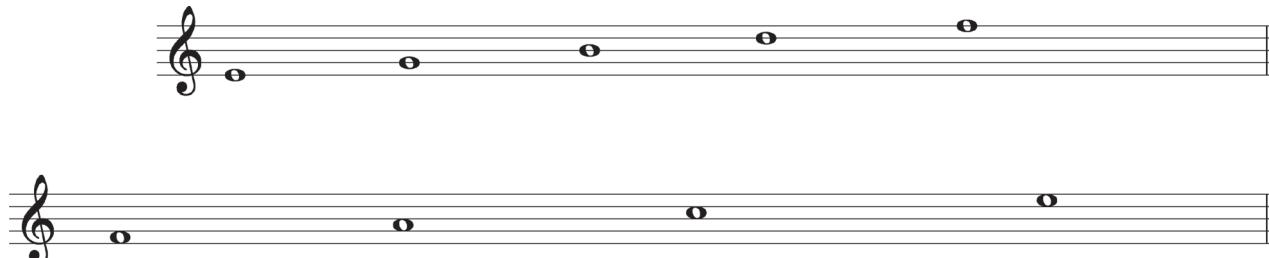


图1-7 五线谱的线与间

为了记录过高或者过低的音还以上加线（间）或者下加线（间），如图1-8所示。

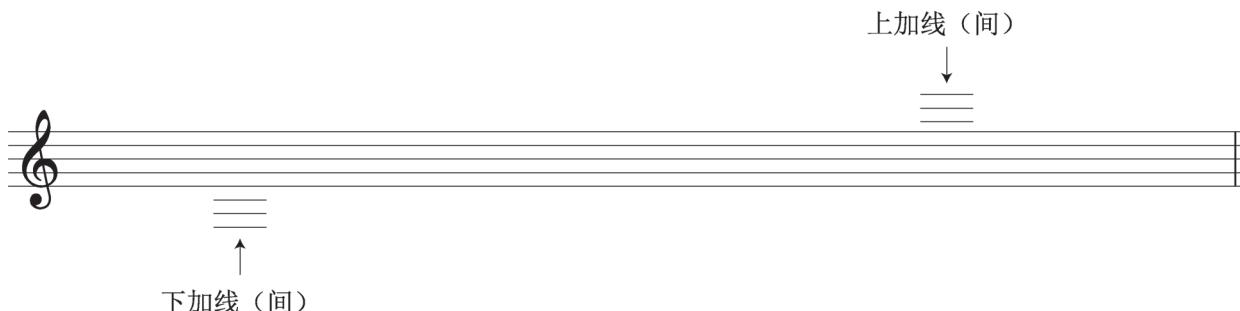


图1-8 上加线(间)和下加线(间)

2.谱号与谱表

高音谱号也叫G谱号，表示五线谱的二线即谱号的起笔线为g1音。低音谱号也叫F谱号，表示五线谱的四线即谱号中两个圆点之间的线为f音。由花连谱号把高音谱表与低音谱表连接起来就组成了大谱表，即钢琴谱表，如图1-9所示。

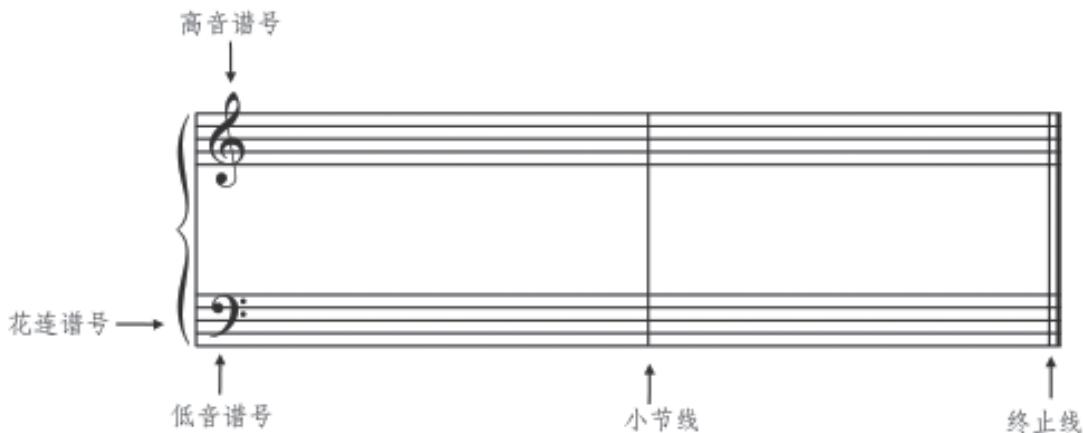


图1-9 钢琴谱表

3. 音符与休止符

音符与时值对照表如表1-1所示。

表1-1 音符与时值对照表

音 符	五 线 谱	时 值
全音符		四拍
二分音符		两拍
四分音符		一拍
八分音符		1/2拍
十六分音符		1/4拍
三十二分音符		1/8拍

休止符与时值对照表如表1-2所示。

表1-2 休止符与时值对照表

休止符	五线谱	时值
全休止符		四拍或整小节休止
二分休止符		两拍
四分休止符		一拍
八分休止符		1/2拍
十六分休止符		1/4拍
三十二分休止符		1/8拍

4. 节奏与拍号

节奏是音乐的灵魂。按规律反复出现的现象被称为节奏。声音按一定规律的强弱组合即是音乐的基本因素。音乐中基本的节奏为两拍、三拍、四拍。

拍号通常写在乐谱的开始处，标在谱号及调号的后面。拍号表明乐曲的节拍特征。属于两拍范畴的常见拍号有 $2/4$ 、 $4/4$ 、 $6/8$ 等；属于三拍范畴的常见拍号有 $3/4$ 、 $3/8$ 等。

拍号中的数字表示一小节内有几拍，拍号的下方数字表示以几分音符为一拍。具体表示为：



微课
节奏与拍号

2/4表示每小节有两拍，以四分音符为一拍，重音在第一拍；

4/4表示每小节有四拍，以四分音符为一拍，重音在第一拍，次重音在第三拍；

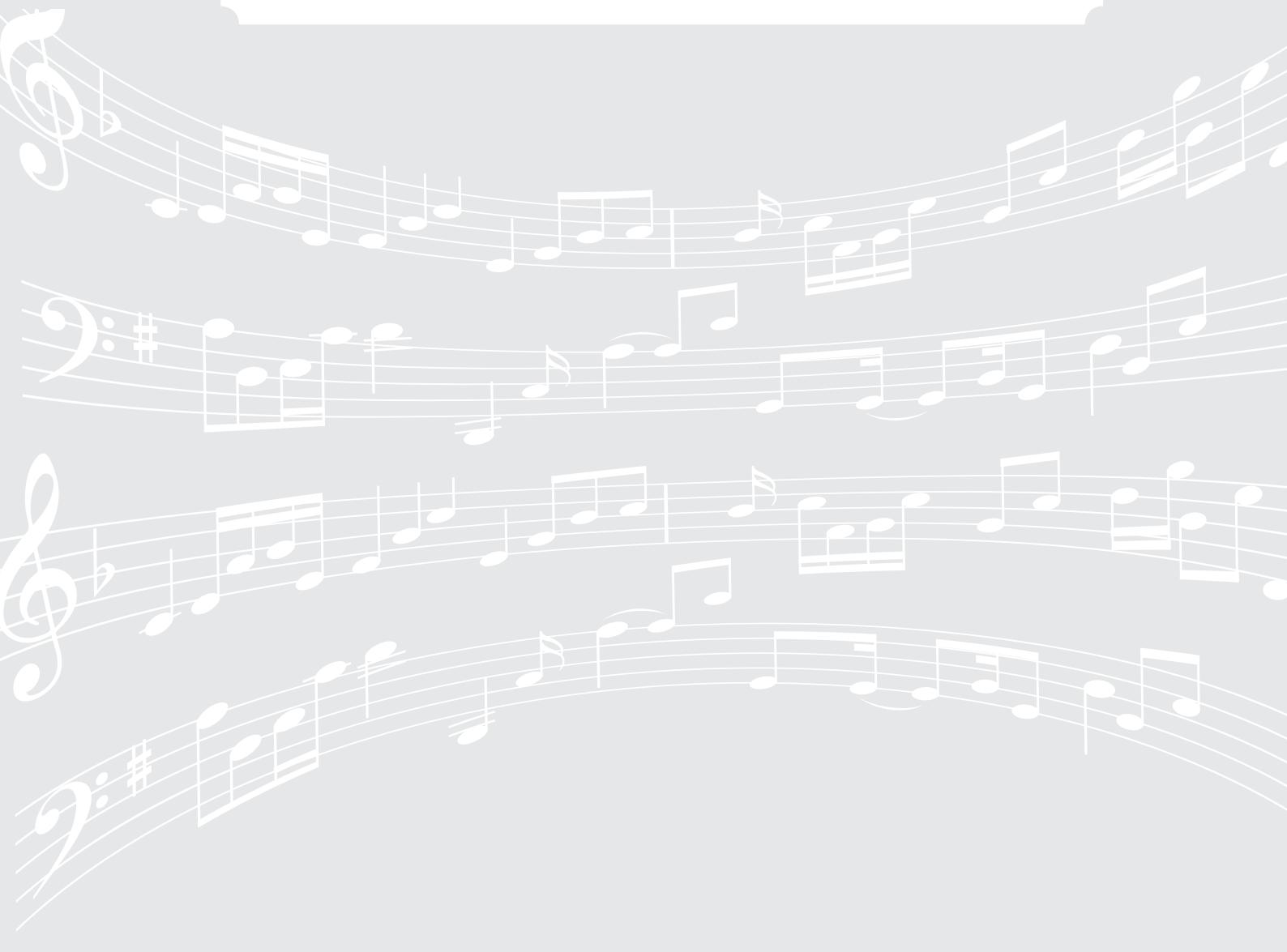
6/8表示每小节有六拍，以八分音符为一拍，重音在第一拍，次重音在第四拍；

3/4表示每小节有三拍，以四分音符为一拍，重音在第一拍；

3/8表示每小节有三拍，以八分音符为一拍，重音在第一拍。

单元二

钢琴基础训练（一）



内容简介

本单元适用于早期教育和学前教育专业第一学期的钢琴教学，主要介绍钢琴断奏和连奏的弹奏方法，并配置了相应的练习曲目。



知识要点 断奏、连奏与和弦的弹奏方法



微课
连奏训练

一、连奏训练

连奏对手指触键方式的要求不是爆发性地快击挥动，而是训练有素地缓慢触摸。连奏要求较好的控制技术，要求手、腕、肘、臂等各活动部位要圆滑、平稳、协调。如图2-1所示。

1. 音程

为了更好地讨论和弦，我们从音程开始说起。

以C大调为例，来看看音程（interval）也就是音之间的间距是怎么来的。

C大调的意思是，以do作为起始音，之后的间隔遵循全音、全音、半音、全音、全音、全音、半音依次升高这样的音的集合。

这样我们就得到了do、re、mi、fa、sol、la、si、do这些音，这串音符就是C大调。

在C大调里do-re和mi-fa之间的间距就是不同的，根据声音频率来看，前者间距是后者的两倍，即do-re之间相隔一个全音，mi-fa之间相隔半音。

由于半音的存在，那些不太主流的音在钢琴键盘上被做成了黑键（如do和re之间的音），而相对常用的音就是白键。

2. 和弦

当3个或更多的音同时或分别奏响，就演奏出了一个和弦。在实际创作中并没有这么简单，由于一些音的组合让人感觉到不适，或者不和谐，这样的组合就会被剔除，而那些非常适合在一起使用的音就成了大众的选择。

优美的和弦大多遵循一定的规律，具体说来就是它们的音程有着奇妙的共性。

简单起见，本书只关注大三度和小三度音。它们分别代表两音之间相隔了4个和3个半音。实践证明，根据这两种音程搭配出来的和弦通常让人感觉非常和谐，浑然天成，仿佛是冥冥之中的定数，甚是奇妙。



图2-1 连奏训练模式“高抬指”



微课
断奏训练

二、断奏训练

断奏（staccato）又称断音弹奏法，是钢琴重要的基本弹奏方法之一。掌握合理科学的弹奏方法，实质上是合理运用弹奏技术。断奏是其他弹奏技术的重要基础。

断奏的弹法练习，可以分解为四个动作，即：把手型摆好，手臂自然提起，手臂自然下落，指端肌肉垫着力触键。这四个动作过程是一个自然连贯的有机整体。这种每个音之间都断开的弹奏方法即为断奏。

断奏练习过程中，手臂自然提起时，肩膀放松，大臂通畅，肘部的自然活动带动小臂和手腕，使手自然抬起，手指处于积极主动弹奏的状态。

在断奏练习过程中，手臂自然下落时，应防止过多地施加外力或下落途中控制力量。过多地施加外力，容易引起敲击触键时发生粗糙的声音；手臂下落途中控制了力量，容易出现“太空舞”触键式的虚弱声音。这两种特殊的声音可能是后期作品学习的风格音色，但在初始阶段基本功训练中，不可非理性求之。声音扎实饱满，柔和松通，是初始阶段练习的理想效果。断奏训练的手型如图2-2所示。

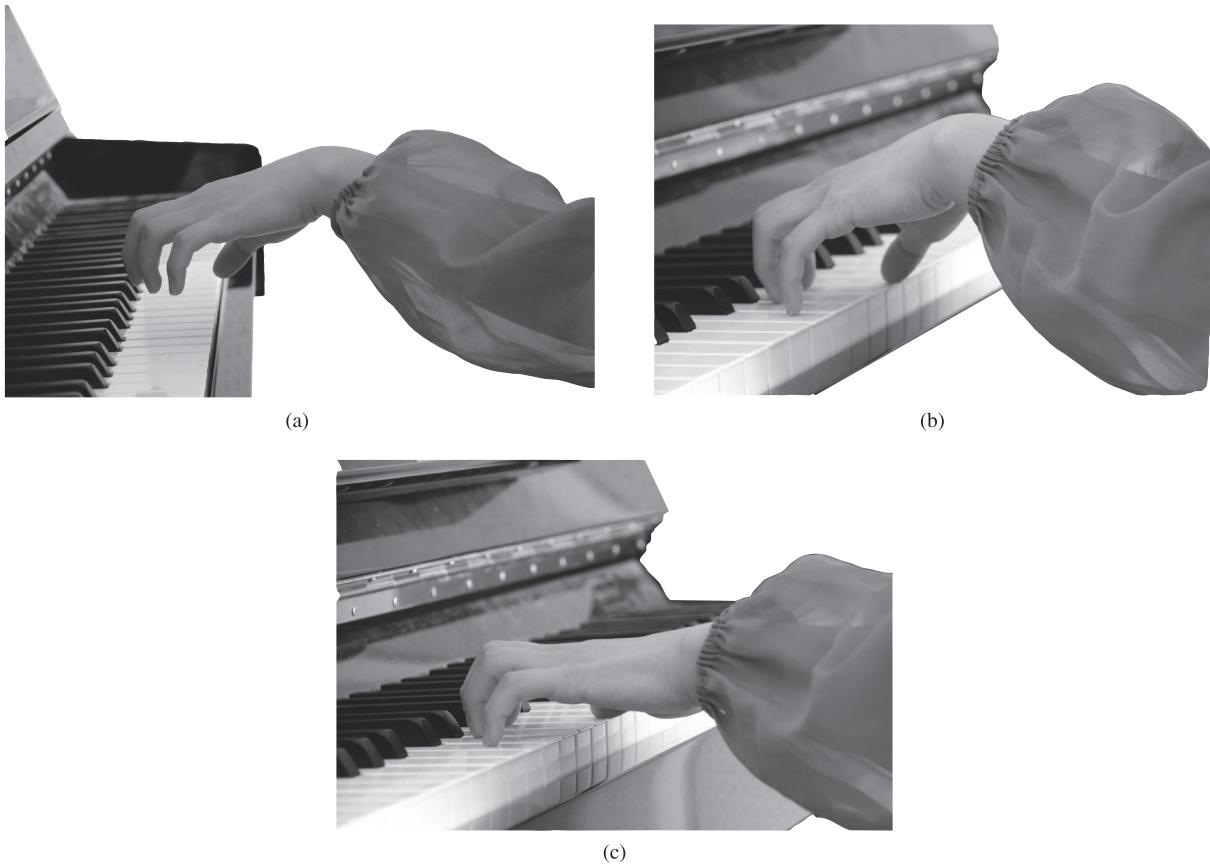


图2-2 断奏训练手型

1.右手1指练习

Musical staff in G clef and common time. The staff consists of four measures. In the first measure, there is a note on the top line. In the second measure, there is a note on the middle line. In the third measure, there is a note on the bottom line. In the fourth measure, there is a note on the top line.

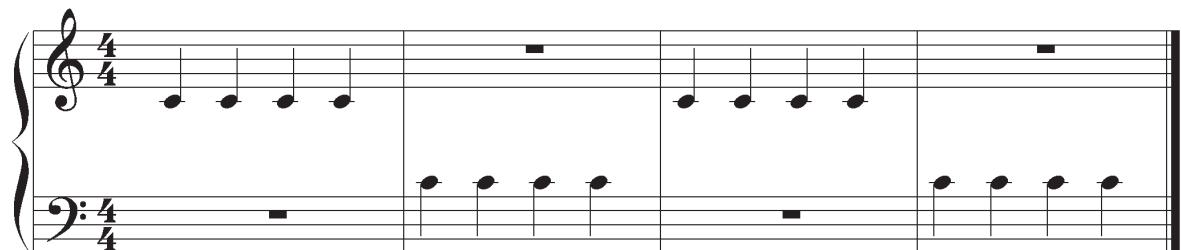
2.左手1指练习

Musical staff in G clef and common time. The staff consists of four measures. In the first measure, there is a note on the middle line. In the second measure, there is a note on the bottom line. In the third measure, there is a note on the middle line. In the fourth measure, there is a note on the bottom line.

3.二分音符练习

Musical staff in G clef and common time. The staff consists of four measures. In the first measure, there are two eighth notes on the top line. In the second measure, there is a note on the middle line followed by a note on the bottom line. In the third measure, there are two eighth notes on the bottom line. In the fourth measure, there is a note on the middle line followed by a note on the top line.

4. 四分音符练习



5. 基本练习



5



6. 基本练习

The musical score for Exercise 6 consists of two staves. The top staff is in treble clef and common time (4/4). It contains four measures of rests. The bottom staff is in bass clef and common time (4/4). It contains four measures of notes: a quarter note followed by three eighth notes. This pattern repeats once. Measure numbers 1 and 2 are indicated above the staves.

7. 向左走，向右走

The musical score for Exercise 7 consists of two staves. The top staff is in treble clef and common time (2/4). It contains four measures: a dotted half note, a dotted half note, a half note, and two measures of rests. The bottom staff is in bass clef and common time (2/4). It contains four measures: a rest, a rest, a quarter note followed by a half note, and a half note. Measure numbers 1 and 2 are indicated above the staves.

8.爬山

汤普森 曲

Musical score for '8.爬山' in 2/4 time. The score consists of two staves. The top staff uses a treble clef and has four measures. The bottom staff uses a bass clef and has four measures. Measures 1-2: Treble staff has quarter notes on the first and third beats; Bass staff has a dash. Measures 3-4: Treble staff has quarter notes on the second and fourth beats; Bass staff has a dash.

5

Continuation of the musical score for '8.爬山'. The top staff starts with a dash followed by quarter notes on the second and fourth beats. The bottom staff starts with a dash followed by quarter notes on the second and fourth beats.

9.玛丽有只小羔

汤普森 曲

Musical score for '9.玛丽有只小羔' in 4/4 time. The score consists of two staves. The top staff uses a treble clef and has eight measures. The bottom staff uses a bass clef and has eight measures. Measures 1-4: Treble staff has eighth-note patterns (eighth note, sixteenth note, eighth note); Bass staff has a dash. Measures 5-8: Treble staff has eighth-note patterns (eighth note, sixteenth note, eighth note); Bass staff has a dash.

5

Continuation of the musical score for '9.玛丽有只小羔'. The top staff starts with a dash followed by eighth-note patterns. The bottom staff starts with a dash followed by eighth-note patterns.

10.月亮，月亮

The musical score for piece 10 consists of two staves. The top staff is in treble clef and common time (indicated by a '4'). It contains six measures of music, starting with a rest followed by quarter notes and eighth notes. The bottom staff is in bass clef and common time. It also contains six measures, starting with eighth notes and rests. Measure 5 is indicated above the first measure of each staff.

11.基本练习

The musical score for piece 11 consists of two staves. The top staff is in treble clef and common time. It contains eight measures of music, starting with eighth notes and quarter notes. The bottom staff is in bass clef and common time. It also contains eight measures, starting with rests. Measure 5 is indicated above the first measure of each staff.

12.亲 亲 我

Musical score for '12.亲 亲 我'. The score consists of two staves. The top staff is in treble clef and 4/4 time, featuring a continuous sequence of eighth notes. The bottom staff is in bass clef and 4/4 time, featuring a continuous sequence of quarter notes.

Continuation of the musical score for '12.亲 亲 我'. The score consists of two staves. The top staff is in treble clef and 4/4 time, featuring a sequence of eighth notes. The bottom staff is in bass clef and 4/4 time, featuring a sequence of quarter notes. The measure number '4' is indicated above the first measure.

13.练 习 曲

Musical score for '13.练习曲'. The score consists of two staves. The top staff is in treble clef and 4/4 time, featuring a sequence of eighth notes. The bottom staff is in bass clef and 4/4 time, featuring a sequence of quarter notes.

Continuation of the musical score for '13.练习曲'. The score consists of two staves. The top staff is in treble clef and 4/4 time, featuring a sequence of eighth notes. The bottom staff is in bass clef and 4/4 time, featuring a sequence of quarter notes. The measure number '5' is indicated above the first measure.

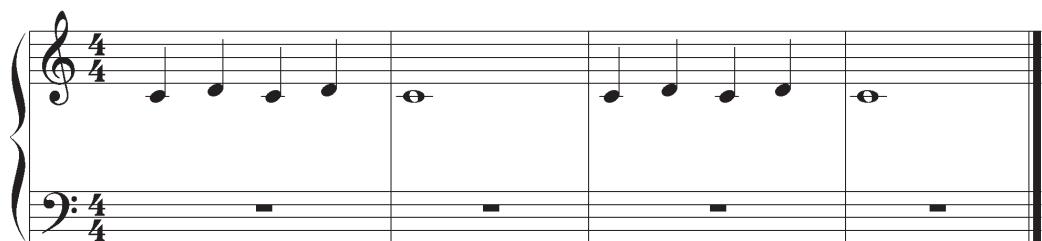
14. 基本练习

5

15. 基本练习

5

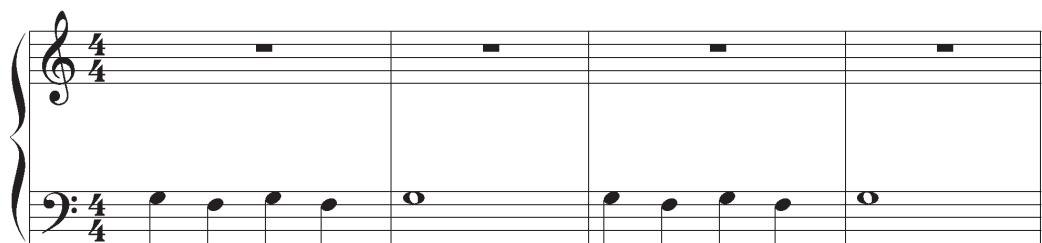
16. 基本练习



5

A continuation of the musical staff from the previous measure. The treble staff has four measures. The first measure contains four eighth notes. The second measure contains one eighth note followed by three rests. The third measure contains four eighth notes. The fourth measure contains one eighth note followed by three rests. The bass staff has four measures, each containing a single rest.

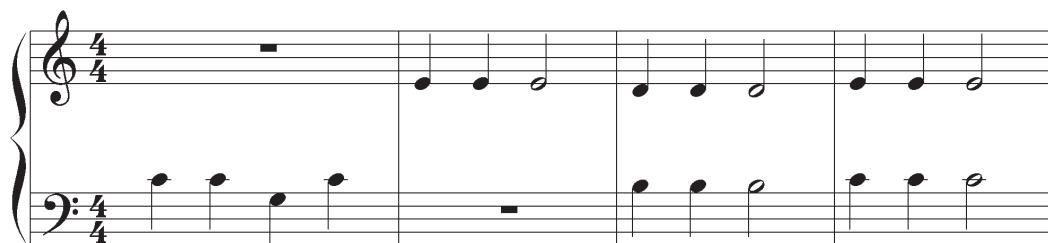
17. 基本练习



5

A continuation of the musical staff from the previous measure. The treble staff has four measures, each containing a single rest. The bass staff has four measures. The first measure contains four quarter notes. The second measure contains one quarter note followed by three rests. The third measure contains four quarter notes. The fourth measure contains one quarter note followed by three rests.

18. 小 鸡



5

Continuation of the musical score for 'Little Chick' (小鸡) in 4/4 time. The treble clef is on the top staff, and the bass clef is on the bottom staff. The music continues from measure 1, with a rest followed by a dotted half note in measure 1, and measures 2 and 3 each having four eighth notes.

19. 带升号的练习



5

Continuation of the musical score for 'With Sharp Signs' (带升号) in 4/4 time. The treble clef is on the top staff, and the bass clef is on the bottom staff. The music continues from measure 1, with six eighth notes in measure 1 (C, D, E, F#, G, A) and four eighth notes in measure 2 (C, D, E, F#).

20. 咚 咚 镐

The musical score consists of four staves of music for two voices, arranged in a two-voice piano-roll style. The top staff uses treble clef and 2/4 time signature. The bottom staff uses bass clef and 2/4 time signature. The music is divided into measures by vertical bar lines.

- Measure 1:** Treble staff has a rest. Bass staff has a quarter note followed by a half note.
- Measure 2:** Treble staff has a rest. Bass staff has a rest.
- Measure 3:** Treble staff has a rest. Bass staff has a half note.
- Measure 4:** Treble staff has a rest. Bass staff has a rest.
- Measure 5:** Treble staff has a quarter note followed by a half note. Bass staff has a rest.
- Measure 6:** Treble staff has a rest. Bass staff has a quarter note followed by a half note.
- Measure 7:** Treble staff has a rest. Bass staff has a rest.
- Measure 8:** Treble staff has a rest. Bass staff has a half note.
- Measure 9:** Treble staff has a rest. Bass staff has a half note.
- Measure 10:** Treble staff has a rest. Bass staff has a rest.
- Measure 11:** Treble staff has a rest. Bass staff has a half note.
- Measure 12:** Treble staff has a rest. Bass staff has a half note.
- Measure 13:** Treble staff has a rest. Bass staff has a half note.
- Measure 14:** Treble staff has a rest. Bass staff has a rest.

21. 带降号的练习

5

22. 基本练习

5

23. 基本练习

The image shows four staves of musical notation for piano, arranged vertically. Each staff consists of two five-line staves connected by a brace. The top staff uses a treble clef and the bottom staff uses a bass clef. The music is in common time (indicated by a '4'). The notation consists of quarter notes and eighth notes. Measure numbers 1, 5, 9, and 13 are placed above the staves. Measures 1-4 show a pattern of eighth notes in the treble staff and quarter notes in the bass staff. Measures 5-8 show a similar pattern. Measures 9-12 show a variation where the bass staff has eighth-note pairs. Measure 13 concludes with a single eighth note in the bass staff.

24. 旋律

汤普森 曲

第一乐句

Musical score for the first phrase of '24. Melody' by Thompson. The score consists of two staves. The top staff is in treble clef and 2/4 time, with a dynamic of forte (f). The bottom staff is in bass clef and 2/4 time, with a dynamic of piano (p). The melody is played on the treble staff, with fingerings 3, 5, 1, 2 over the notes. The bass staff provides harmonic support.

第二乐句

Musical score for the second phrase of '24. Melody' by Thompson. The score consists of two staves. The top staff is in treble clef and 2/4 time, with a dynamic of forte (f). The bottom staff is in bass clef and 2/4 time, with a dynamic of piano (p). The melody continues on the treble staff, with fingerings 3, 1, 2, 3, 5, 1 over the notes. The bass staff provides harmonic support.

25. 《拜厄钢琴基本教程》之16

拜厄 曲

Moderato (中速)

Musical score for '25. 《拜厄钢琴基本教程》之16' by Bach. The score consists of two staves. The top staff is in treble clef and 2/4 time, with a dynamic of piano (p). The bottom staff is in treble clef and 2/4 time, with a dynamic of piano (p). The melody is played on the treble staff, with fingerings 1, 2, 3, 4, 3, 1 over the notes. The bass staff provides harmonic support. The score includes measure numbers 1 through 9.

26. 蜜蜂

民歌

The musical score for "蜜蜂" (Bees) is presented in G major and 4/4 time. It features three staves. The top staff contains the vocal melody, consisting of quarter notes and eighth-note groups. The bottom staff provides harmonic support with sustained bass notes. The score is divided into measures 1, 2, 3, and 5, with measure 3 being the first repeat and measure 5 being the second repeat.

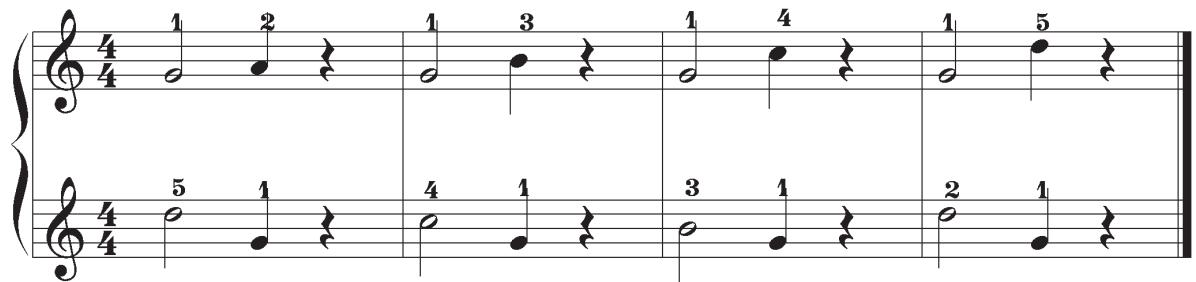
27.无事生非

民歌

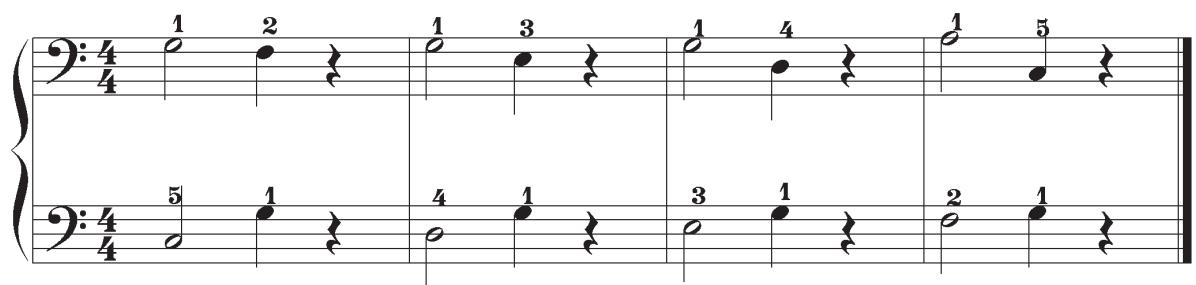
The musical score consists of two staves. The top staff is in treble clef and common time (indicated by '3'). The bottom staff is in bass clef and common time (indicated by '3'). The score is divided into four melodic phrases, each underlined by a bracket:

- 第一乐句 (First Melodic Phrase):** This phrase starts with a dynamic of ***mf* (中强)**. It consists of six measures of eighth notes.
- 第二乐句 (Second Melodic Phrase):** This phrase starts with a dynamic of ***mp* (中弱)**. It consists of six measures of eighth notes.
- 第三乐句 (Third Melodic Phrase):** This phrase starts with a dynamic of ***f* (强)**. It consists of six measures of eighth notes.
- 第四乐句 (Fourth Melodic Phrase):** This phrase starts with a dynamic of ***p* (弱)**. It consists of six measures of eighth notes.

28.抬臂练习



29.抬臂练习



30. 在堤岸上

Allegro 快板

选自《约翰·汤普森简易钢琴教程(3)》

Musical score for measures 3-5. The key signature is one sharp (F#). The tempo is Allegro (fast). Measure 3 starts with a dynamic *mf*. Measure 4 starts with a dynamic *mp*. Measure 5 starts with a dynamic *p*.

变换手位置

第一结尾

Musical score for the first ending. The key signature is one sharp (F#). The tempo is Allegro (fast). Measure 1 starts with a dynamic *mp*. Measure 2 starts with a dynamic *p*.

第二结尾

Musical score for the second ending. The key signature is one sharp (F#). The tempo is Allegro (fast). Measure 1 starts with a dynamic *mf*. Measure 2 starts with a dynamic *p*.

Musical score for the repeat section. The key signature is one sharp (F#). The tempo is Allegro (fast). The score shows two endings: 1. and 2. A repeat sign with a double bar line is shown, followed by a dynamic *f*.

31. 贝伦斯练习曲

贝伦斯
作品70之9

Andantino

f Legato

3 5 4 2 1 3 2

32. 基本练习

4 4

33. 练习曲

Allegro

车尔尼 曲
作品777之3

The sheet music consists of three staves of musical notation for piano. The top staff is treble clef, 3/4 time, dynamic *p*. It features a series of eighth-note patterns with grace notes. Fingerings are indicated below the notes: 4, 1, 2; 5, 1, 3; 4. The middle staff is also treble clef, 3/4 time. It contains eighth-note chords and grace notes. Fingerings: 4, 1, 2; 5, 1, 3. The bottom staff is bass clef, 3/4 time. It shows eighth-note chords and grace notes. Fingerings: 4, 1, 2; 5, 1, 2. Measure numbers 5, 6, and 11 are marked above the staves. Dynamics *p*, *mf*, and *p* are also present.

34. 练习曲

选自《儿童钢琴启蒙教程》

The image shows four staves of piano sheet music. The top two staves are in treble clef and common time (4/4). The bottom two staves are in bass clef and common time (4/4). Each staff consists of two measures. In each measure, the first note is a quarter note followed by a eighth note, both connected by a horizontal line (beam). The second note is a half note. Measures 1 and 2 are identical in both staves. Measures 3 and 4 are identical in both staves.

35. 黄鼠狼逃跑了

汤普森 曲

Moderato

Musical score for "35. 黄鼠狼逃跑了". The score is in Moderato tempo and consists of four systems of music. The top staff is Treble clef and the bottom staff is Bass clef. The key signature changes from G major (no sharps or flats) to F# major (one sharp) at measure 11. Measure 1: Bass note (B), Treble note (A). Measure 2: Bass note (G), Treble note (F). Measure 3: Bass note (E), Treble note (D). Measure 4: Bass note (C), Treble note (B). Measure 5: Bass note (G), Treble note (F). Measure 6: Bass note (E), Treble note (D). Measure 7: Bass note (C), Treble note (B). Measure 8: Bass note (G), Treble note (F). Measure 9: Bass note (E), Treble note (D). Measure 10: Bass note (C), Treble note (B). Measure 11 (f#): Bass note (D#), Treble note (C#). Measure 12: Bass note (G), Treble note (F). Measure 13: Bass note (E), Treble note (D).

36.中国大戏院

选自《约翰·汤普森简易钢琴教程(3)》

The musical score consists of four staves of music for piano, spanning four systems. The first system starts with a treble clef, common time, and a dynamic of *mf*. It features a sequence of eighth-note chords in the bass and sixteenth-note patterns in the treble. The second system begins with a bass clef, common time, and a dynamic of *p*, continuing the harmonic pattern. The third system returns to a treble clef, common time, with a dynamic of *f*. The fourth system concludes with a treble clef, common time, and a dynamic of *mf*. Measure numbers 1 through 13 are indicated above the staves.

37. 动物展览会

传统歌曲

Allegretto 小快板

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

mp

I went to the Animal Fair
The birds and beasts were there
The old rascal coon by the light of the
moon was combing his auburn hair
The monkey went kerplunk

20

Fell o - ver the el - e - phant's truck

G β:

24

The el - e - phant sneezed

Fell down on his

$\frac{5}{3}$

28

knees, So what be - came of the monk!

$\frac{5}{3}$

38. 练习曲

39. 部落舞

选自《约翰·汤普森简易钢琴教程(3)》

Allegro 快板

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

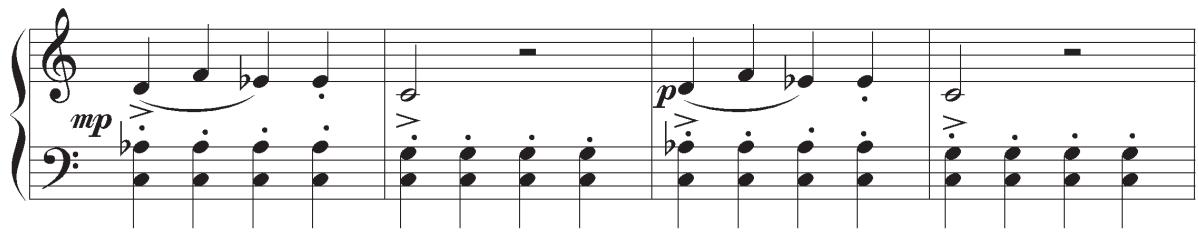
17

18

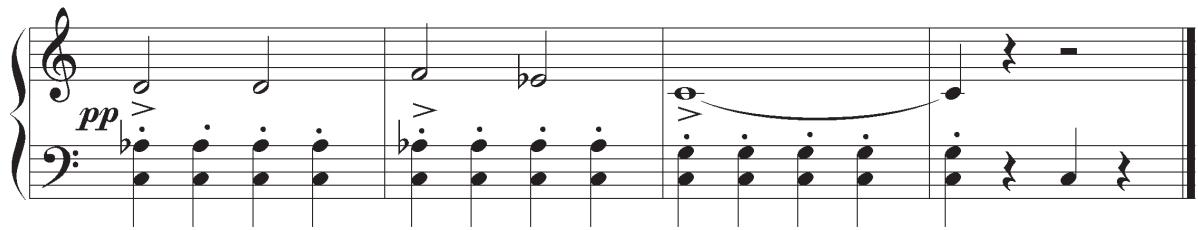
19

20

19

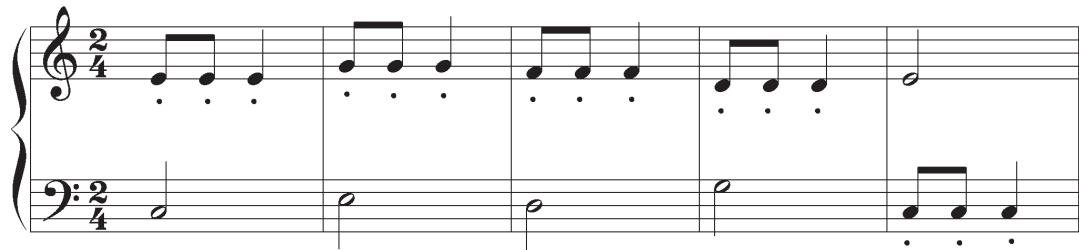


23



40. 手腕断奏练习

Allegro



6



41. 知更鸟罗宾

选自《约翰·汤普森简易钢琴教程(3)》

Allegretto小快板

1 2 3 5 3 3 3
mf

5 2 3
— — —
— — —
— — —

9 3 2 3 3
cresc.
1 2 3 4
f mp

13 3 2 3
— — —
— — —
— — —

42. 杂技演员

选自《约翰·汤普森简易钢琴教程(3)》

1
2
3
4
5
9
13

mp

mf

43.牛仔之歌

Andantino 小行板

5

11

17

22

44. 有 些 人

斯蒂芬·福斯特 曲

3
Allegretto

5

45. 分解和弦

Allegretto 小快板

右手跨越

右手跨越

13

mf

1

mf

5

mf

9

mf

13

mf

46.车尔尼练习曲

The sheet music consists of four staves of music for piano, arranged in two systems. The top system starts at measure 1 and ends at measure 8. The bottom system starts at measure 9 and ends at measure 13. Both systems are in 3/4 time.

Measure 1: Treble staff: Rest. Bass staff: D, F, A.

Measure 2: Treble staff: Rest. Bass staff: D, F, A.

Measure 3: Treble staff: C, E. Bass staff: Rest.

Measure 4: Treble staff: C, E. Bass staff: D, F, A.

Measure 5: Treble staff: Rest. Bass staff: D, F, A.

Measure 6: Treble staff: C, E, G. Bass staff: D, F, A.

Measure 7: Treble staff: Rest. Bass staff: D, F, A.

Measure 8: Treble staff: Rest. Bass staff: D, F, A.

Measure 9: Treble staff: G, B. Bass staff: Rest.

Measure 10: Treble staff: G, B. Bass staff: Rest.

Measure 11: Treble staff: Rest. Bass staff: G, B.

Measure 12: Treble staff: G, B. Bass staff: Rest.

Measure 13: Treble staff: Rest. Bass staff: G, B.

47. 固定位置的五指练习1

车尔尼 曲
作品 599 之 11

The music consists of four staves of piano music. The top staff shows a treble clef, a bass clef, and a common time signature. The first measure has a bass note with a '1' below it and a '2' above it. The second measure has a bass note with a '3' above it. The third measure has a bass note with a '1' above it and a '2' below it. The fourth measure has a bass note with a '3' above it. The bottom three staves show a treble clef, a bass clef, and a common time signature. The first measure of each has a bass note with a '1' below it and a '2' above it. The second measure has a bass note with a '3' above it. The third measure has a bass note with a '1' above it and a '2' below it. The fourth measure has a bass note with a '3' above it. Measures 5 and 6 are indicated by a dashed line.

48. 固定位置的五指练习2

车尔尼 曲
作品 599 之 12

1 5

5

9

13 5 5 5 5